

CLAIMS

What is claimed:

1 1. A friction clutch, comprising:
2 a housing arrangement connectable to a drive element for rotation in
3 common about an axis of rotation;
4 a plurality of first friction disks connected to said housing arrangement
5 such that said first friction disks are fixed with respect to rotation and axially movable
6 relative to said housing arrangement;
7 a hub rotatable about said axis of rotation relative to said housing
8 arrangement and having a plurality of radially outward-projecting connection arms;
9 a plurality of second friction disks defining engagement opening therein
10 being closed on radial inner sides thereof, wherein said connection arms of said hub
11 engage said engagement openings of said second friction disks such that said second
12 friction disks are fixed with respect to rotation and axially movable relative to said hub;
13 and
14 a force-exerting arrangement arranged in said housing and exerting a
15 force for urging said first friction elements and said second friction elements into contact
16 with each other.

1 2. The friction clutch of claim 1, wherein each of said rotational
2 connection arms comprises rotational connection projections extending axially on both
3 axial sides of said each of said rotational connection arms, said rotational connection

4 projections engaging associated ones of said engagement openings in said second
5 friction disks.

1 3. The friction clutch of claim 1, wherein said engagement openings
2 extend essentially in a radial direction.

1 4. The friction clutch of claim 1, wherein each of said second friction
2 disks comprise ring-shaped areas delimiting radially inner sides of said engagement
3 openings.

1 5. The friction clutch of claim 1, wherein said hub further comprises
2 connecting areas formed circumferentially between adjacent ones of said rotational
3 connection arms for connecting said adjacent ones of said rotational connection arms.

1 6. A clutch disk arrangement for a multi-disc friction clutch,
2 comprising:
3 a hub rotatable about an axis of rotation having a plurality of radially
4 outward-projecting connection arms; and
5 a plurality of friction disks defining engagement opening therein being
6 closed on radial inner sides thereof, wherein said connection arms of said hub engage
7 said engagement openings of said second friction disks such that said second friction
8 disks are fixed with respect to rotation and axially movable relative to said hub.

1 7. A hub for a multi-disc friction clutch having a plurality of friction disks,
2 the hub comprising:

3 a ring-shaped body area rotatable about an axis of rotation; and
4 a plurality of rotational connection arms arranged in succession around a
5 circumference of said ring-shaped body area and extending radially outward to establish
6 a nonrotatable connection of said ring-shaped body area to at least some of the friction
7 disks of the friction clutch, wherein said ring-shaped body area forms at least one axial
8 securing area for securing said hub axially in position with respect to the at least some
9 friction disks.

1 8. The hub of claim 7, wherein an area of said ring-shaped body area
2 adjacent said rotational connection arms has a smaller axial dimension than the
3 rotational connection arms.

1 9. The hub of claim 8, wherein said area of said ring-shaped body
2 area adjacent to said rotational connection arms has a recess on at least one axial side,
3 wherein a bottom area of said recess forms said at least one axial securing area.

1 10. The hub of claim 7, further comprising a connecting section
2 arranged circumferentially between at least two rotational connection arms, said
3 connecting section bridging a gap between said at least two rotational connection arms
4 and being formed such that the friction disks connectable to the hub do not contact said
5 connecting section.

1 11. The hub of claim 8, further comprising a connecting section
2 arranged circumferentially between at least two rotational connection arms, said

3 connecting section bridging a gap between said at least two rotational connection arms
4 and being formed such that the friction disks connectable to the hub do not contact said
5 connecting section, wherein said connecting section has a smaller axial dimension than
6 an axial extent of said area of said ring-shaped body area adjacent said rotational
7 connection arms.

1 12. The hub of claim 9, wherein a radial area of said ring-like body area
2 radially inside at least of one axial securing area comprises a rotational connection area
3 for the nonrotatable connection of said hub to a shaft.